



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/031,322	06/21/2002	Dieter Arabin	12308/1	5907

26646 7590 11/22/2004

KENYON & KENYON
ONE BROADWAY
NEW YORK, NY 10004

EXAMINER

MILLER, WILLIAM L

ART UNIT PAPER NUMBER

3677

DATE MAILED: 11/22/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/031,322

Applicant(s)

ARABIN, DIETER

Examiner

William L. Miller

Art Unit

3677

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
 - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
 - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
 - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 30 August 2004.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 4-7 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 4-7 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 4-7 are rejected under 35 U.S.C. 102(b) as being anticipated by Luebke (US#5137495).

3. Regarding claim 4, Luebke discloses a drive bearing for printing machines for coupling a rotating tool to a drive shaft of a servomotor comprising an element 4 located at an interface between the rotating tool 1 and the drive shaft 16 on a tool axis, the element having an axially projecting coupling cone 6 that engages a counter recess of the drive shaft, the cone being releasably held in the recess by frictional engagement of the surface of the cone with the surface of the recess, wherein an angular position of the element is adjustable, and wherein the element is centered and configured to be secured to prevent rotation.

4. Regarding claim 5, Luebke discloses an undercut, labeled as U in the figure included in the previous Office action, on an inner bore of the coupling cone of the element, and a tensioning rod 8 having a spreading head 9, the rod configured to extend through the drive shaft so that the cone frictionally engages the counter recess in the drive shaft so as to provide a releasable holding of the coupling cone.

Art Unit: 3677

5. Regarding claim 6, Luebke discloses the drive shaft comprising channels 19 that work together along with spring 22 and rod 23 to deliver a pressurized medium to detach the cone, released from the tightening rod, from the counter recess in the drive shaft.

6. Referring to claim 7, Luebke discloses a drive bearing for printing machines for coupling a rotating tool to a drive shaft of a servomotor comprising an element 4 located at an interface between the rotating tool 1 and the drive shaft 16 on a tool axis, the element having an axially projecting coupling cone 6 that engages a counter recess of the drive shaft, the cone tapering down in the direction toward the drive shaft and being releasably held in the recess by frictional engagement of the surface of the cone with the surface of the recess, an undercut, labeled as U in the figure included in the previous Office action, on an inner bore of the coupling cone of the element, and a tensioning rod 8 having a spreading head 9, the rod configured to extend through the drive shaft so that the cone frictionally engages the counter recess in the drive shaft so as to provide a releasable holding of the coupling cone, wherein an angular position of the element is adjustable, and wherein the element is centered and configured to be secured to prevent rotation.

Response to Arguments

7. The applicant argues element 6 of Luebke is trapezoidal in cross-section and is thus not a cone. The examiner agrees element 6 is disclosed as being trapezoidal in cross-section as shown in Fig. 4, however the cross-section of element 6 shown in Fig. 1 clearly defines a cone. A cone is not required to be circular.

8. The applicant argues element 6 (cone) of Luebke is held in the recess by the spring 22, flange 9, and jaws 25 as opposed to being held in the recess via frictional engagement of the surface of the cone with the surface of the recess. The examiner agrees the spring 22, flange 9,

Art Unit: 3677

and jaws 25 hold element 6 (cone) in the recess, however the surface of element 6 (cone) and the surface of the recess are in direct contact and the inherent frictional force therebetween also functions to hold element 6 (cone) in the recess.

Conclusion

9. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

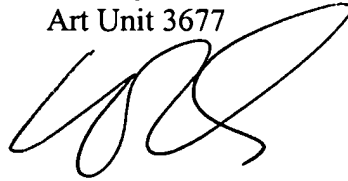
Any inquiry concerning this communication or earlier communications from the examiner should be directed to William L. Miller whose telephone number is 703 305 3978. The examiner can normally be reached on Tuesday-Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, J. J. Swann can be reached on 703 306 4115. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Art Unit: 3677

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

William L. Miller
Primary Examiner
Art Unit 3677

A handwritten signature in black ink, appearing to be 'WLM', written over the printed name and title of the examiner.

WLM
11-17-2004